

Steps to Create an XY Scatterplot using an Open Office Spreadsheet

1. Insert numerical data into two columns

Column A (Independent Variable)	Column B (Dependent Variable)

2. Click in the first cell of data and drag to highlight all of the data.
3. Click on Insert → Chart → XY Scatter
4. Click NEXT three times
5. Insert title and axis labels
 - a. *General* Title Format: Dependent Variable vs. Independent Variable
 - b. *General* X-axis Label: Independent Variable Chosen (unit)
 - c. *General* Y-axis Label: Dependent Variable Results (unit)
 - d. Unclick the box saying Show Legend
 - e. Click Finish
6. Click on a point on the graph, then right click → Insert Trendline
 - a. On the “Type” Tab of the box, select Linear
 - b. Click bottom two boxes (Show Equation & Show R^2)

Notes:

The R^2 value indicates how well the trendline “fits” the data and its patterns. An R^2 value close to 1.00 means the line accurately shows the overall trend of the data.

The Linear Trendline Equation follows the format of $y = mx + b$

- **y** is the independent variable
- **x** is the dependent variable
- **m** is the slope of the line (rise/run) and predicts how much the dependent variable changes for every one unit added to the independent variable
- **b** is the y-intercept and is the predicted value of the dependent variable when the independent variable is equal to zero